## CLAIMS:

What is claimed is:

- 1 1. A method for detecting incorrect cartridge
- 2 orientation in an automated media library, comprising:
- 3 reading label information from a cartridge label on
- 4 a cartridge; and
- 5 determining whether the cartridge is correctly
- 6 oriented based on the label information.
- 1 2. The method of claim 1, wherein the label information
- 2 comprises at least one of a location of a barcode and
- 3 orientation of characters on the label.
- 1 3. The method of claim 1, further comprising:
- 2 adding the cartridge to an orientation unknown list
- 3 if the cartridge is not correctly oriented based on the
- 4 label information.
- 1 4. The method of claim 3, further comprising:
- 2 performing a retrieval operation on each cartridge
- 3 in the orientation unknown list; and
- 4 determining whether each cartridge is correctly
- 5 oriented based on success of the retrieval operation.
- 1 5. The method of claim 1, further comprising:
- 2 performing a retrieval operation on the cartridge if
- 3 the cartridge is not correctly oriented based on the
- 4 label information; and

- 5 marking the cartridge as incorrectly oriented if the
- 6 retrieval operation is not successful.
- 1 6. A method for detecting incorrect cartridge
- 2 orientation in an automated media library, comprising:
- 3 reading a cartridge label on a cartridge;
- 4 determining whether the cartridge label is
- 5 unreadable or the cartridge is unlabeled;
- 6 performing a retrieval operation on the cartridge if
- 7 the cartridge label is unreadable or the cartridge is
- 8 unlabeled; and
- 9 marking the cartridge as incorrectly oriented if the
- 10 retrieval operation is not successful.
- 1 7. The method of claim 6, further comprising:
- determining whether the cartridge is correctly
- 3 oriented based on the cartridge label if the cartridge is
- 4 labeled and the cartridge label is readable.
- 1 8. The method of claim 7, further comprising:
- 2 performing a retrieval operation on the cartridge if
- 3 the cartridge is not correctly oriented based on the
- 4 cartridge label; and
- 5 marking the cartridge as incorrectly oriented if the
- 6 retrieval operation is not successful.
- 1 9. An apparatus for detecting incorrect cartridge
- 2 orientation for a cartridge in an automated media
- 3 library, comprising:



- an imaging interface that gathers cartridge label information about a cartridge;
- a label reader that determines whether the cartridge
- 7 label is unreadable or the cartridge is unlabeled based
- 8 on the cartridge label information; and
- 9 an operation component that performs a retrieval
- 10 operation on the cartridge if the cartridge label is
- 11 unreadable or the cartridge is unlabeled and marks the
- 12 cartridge as incorrectly oriented if the retrieval
- 13 operation is not successful.
- 1 10. The apparatus of claim 9, wherein the label reader
- 2 determines whether the cartridge is correctly oriented
- 3 based on the cartridge label information if the cartridge
- 4 is labeled and the cartridge label is readable.
- 1 11. The apparatus of claim 10, wherein the operation
- 2 component performs a retrieval operation on the cartridge
- 3 if the cartridge is not correctly oriented based on the
- 4 cartridge label information and marks the cartridge as
- 5 incorrectly oriented if the retrieval operation is not
- 6 successful.
- 1 12. An apparatus for detecting incorrect cartridge
- 2 orientation in an automated media library, comprising:
- 3 reading means for reading label information from a
- 4 cartridge label on a cartridge; and



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- 5 determination means for determining whether the
- 6 cartridge is correctly oriented based on the label
- 7 information.

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- 1 13. The apparatus of claim 12, wherein the label
- 2 information comprises at least one of a location of a
- 3 barcode and orientation of characters on the label.
- 1 14. The apparatus of claim 12, further comprising:
- 2 means for adding the cartridge to an orientation
- 3 unknown list if the cartridge is not correctly oriented
- 4 based on the label information.
- 1 15. The apparatus of claim 14, further comprising:
- 2 means for performing a retrieval operation on each
- 3 cartridge in the orientation unknown list; and
- 4 means for determining whether each cartridge is
- 5 correctly oriented based on success of the retrieval
- 6 operation.
- 1 16. The apparatus of claim 12, further comprising:
- 2 means for performing a retrieval operation on the
- 3 cartridge if the cartridge is not correctly oriented
- 4 based on the label information; and
- 5 means for marking the cartridge as incorrectly
- 6 oriented if the retrieval operation is not successful.
- 1 17. An apparatus for detecting incorrect cartridge
- 2 orientation in an automated media library, comprising:

- 3 reading means for reading a cartridge label on a
- 4 cartridge;
- 5 determination means for determining whether the
- 6 cartridge label is unreadable or the cartridge is
- 7 unlabeled;
- 8 operation means for performing a retrieval operation
- 9 on the cartridge if the cartridge label is unreadable or
- 10 the cartridge is unlabeled; and
- 11 marking means for marking the cartridge as
- 12 incorrectly oriented if the retrieval operation is not
- 13 successful.
- 1 18. The apparatus of claim 17, further comprising:
- 2 means for determining whether the cartridge is
- 3 correctly oriented based on the cartridge label if the
- 4 cartridge is labeled and the cartridge label is readable.
- 1 19. The apparatus of claim 18, further comprising:
- 2 means for performing a retrieval operation on the
- 3 cartridge if the cartridge is not correctly oriented
- 4 based on the cartridge label; and
- 5 means for marking the cartridge as incorrectly
- 6 oriented if the retrieval operation is not successful.
- 1 20. A computer program product, in a computer readable
- 2 medium, for detecting incorrect cartridge orientation in
- 3 an automated media library, comprising:
- 4 instructions for reading label information from a
- 5 cartridge label on a cartridge; and

- 6 instructions for determining whether the cartridge
- 7 is correctly oriented based on the label information.
- 1 21. A computer program product, in a computer readable
- 2 medium, for detecting incorrect cartridge orientation in
- 3 an automated media library, comprising:
- 4 instructions for reading a cartridge label on a
- 5 cartridge;
- 6 instructions for determining whether the cartridge
- 7 label is unreadable or the cartridge is unlabeled;
- 8 instructions for performing a retrieval operation on
- 9 the cartridge if the cartridge label is unreadable or the
- 10 cartridge is unlabeled; and
- instructions for marking the cartridge as
- 12 incorrectly oriented if the retrieval operation is not
- 13 successful.